

Figure 1

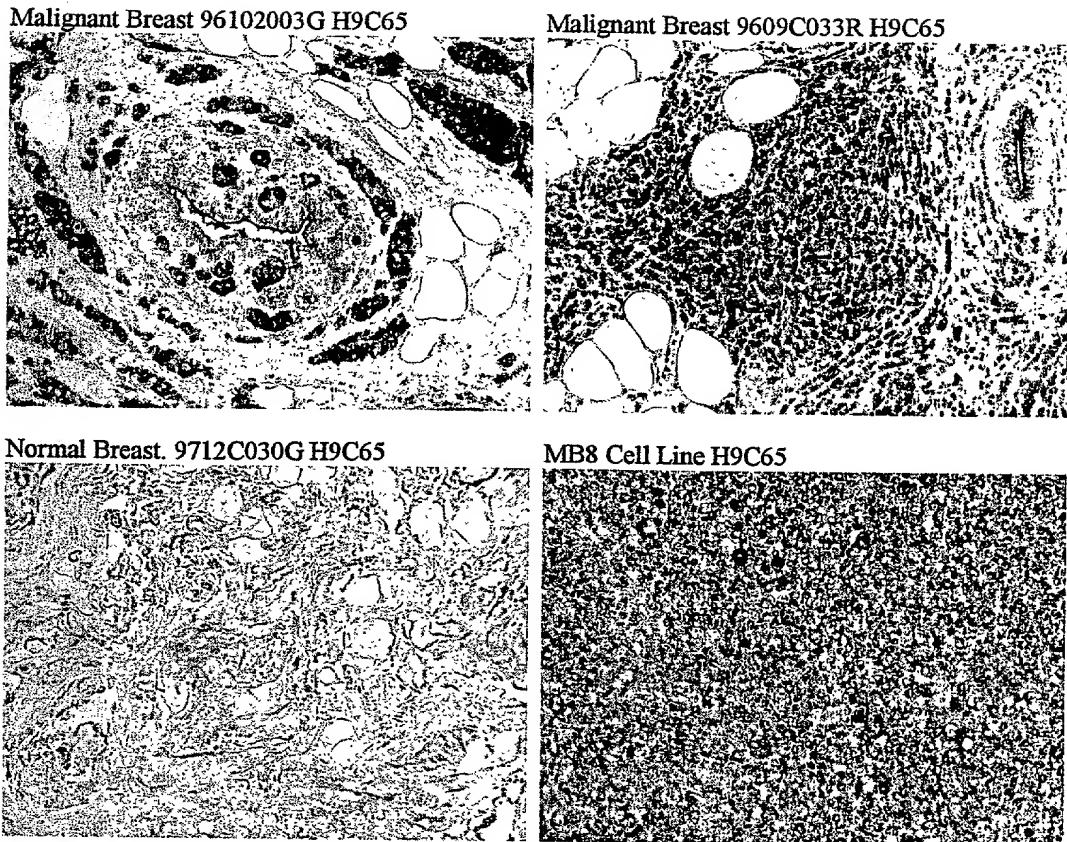
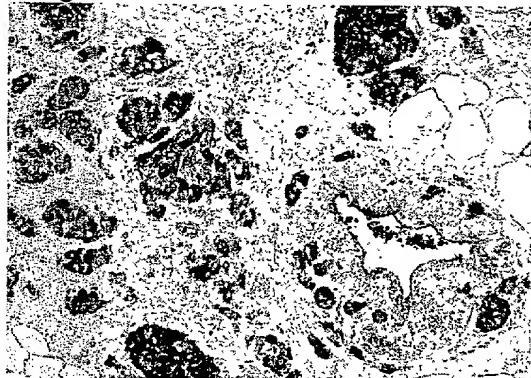
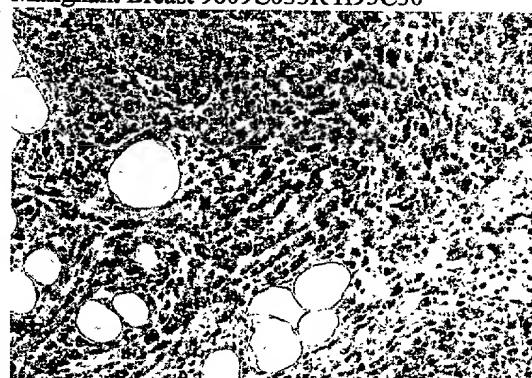


Figure 2

Malignant Breast 96102003G H95C30



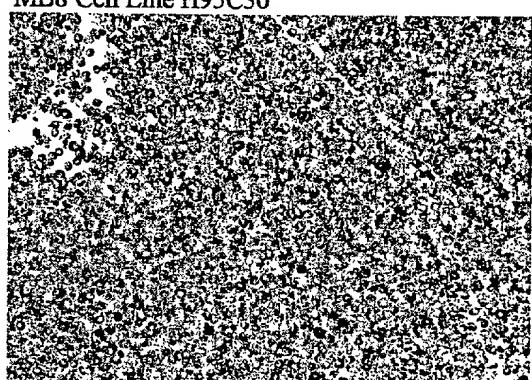
Malignant Breast 9609C033R H95C30



Normal Breast 9712C030G H95C30



MB8 Cell Line H95C30



099275502 • 410140

Figure 3

09975663 "4G4-LG"

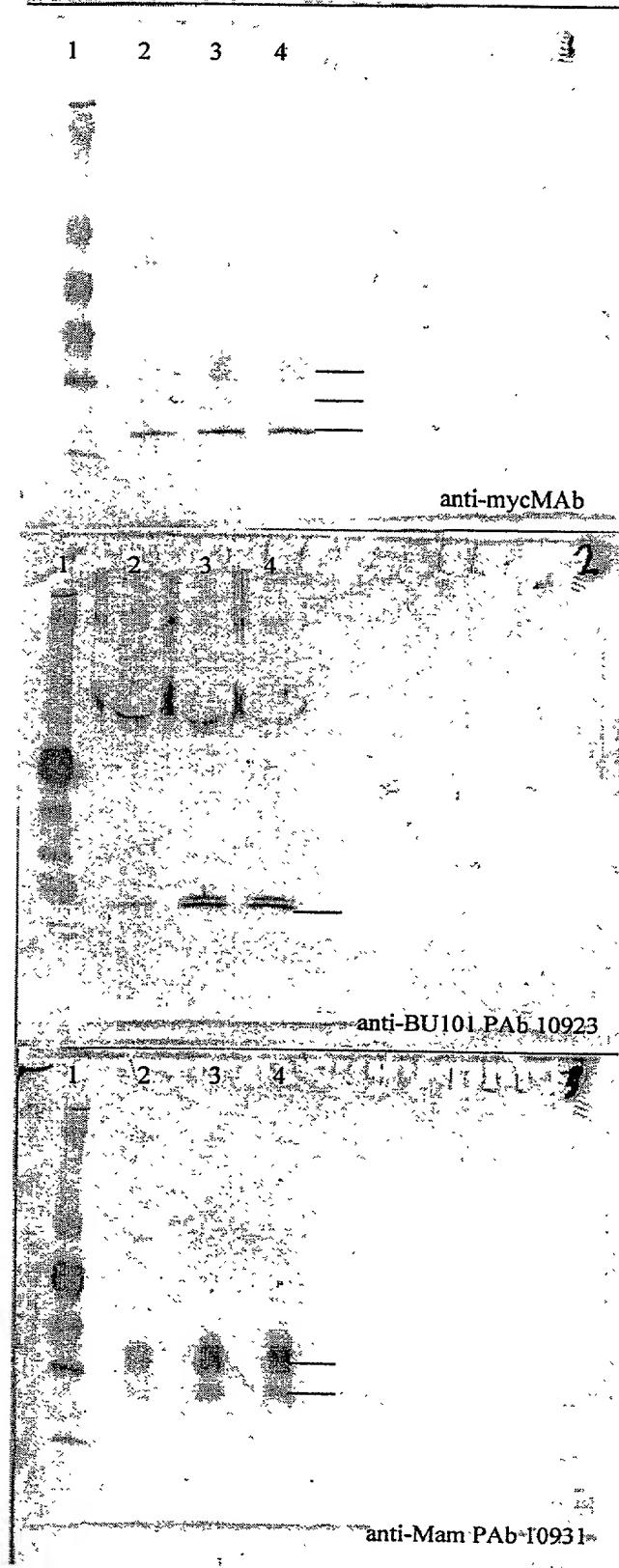


Figure 4

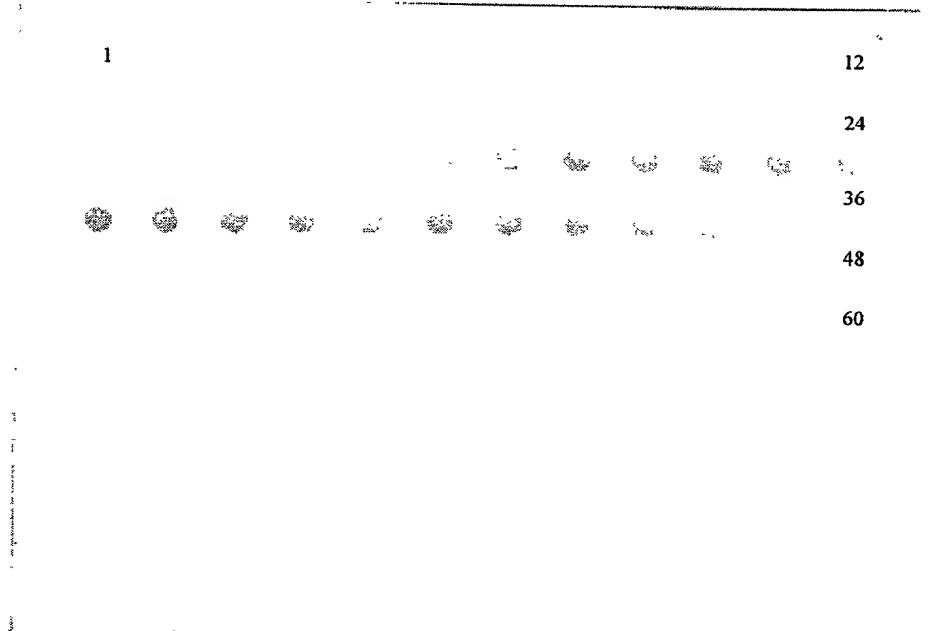
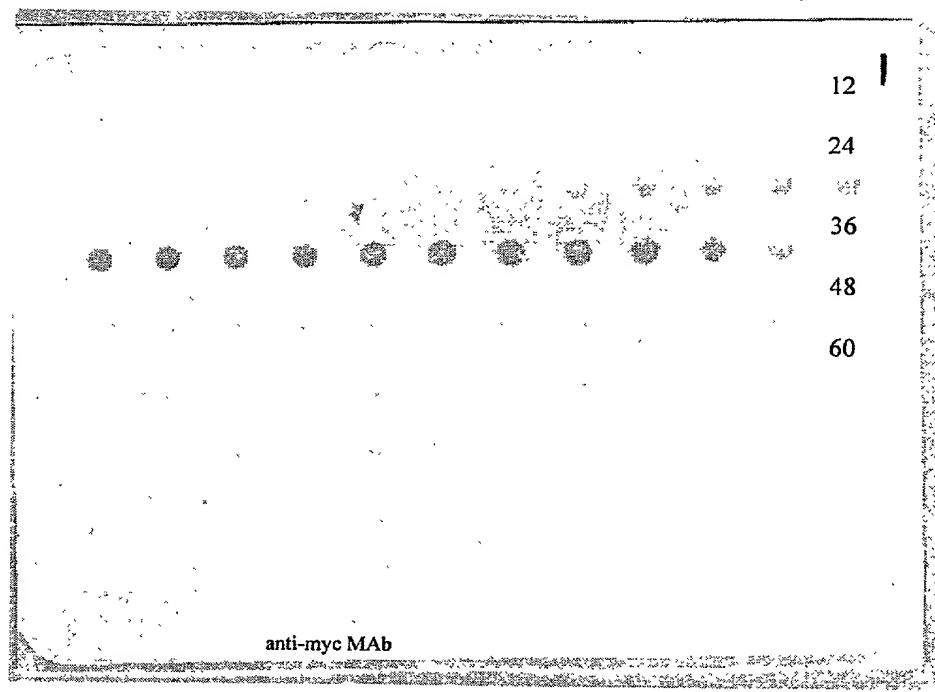


Figure 5

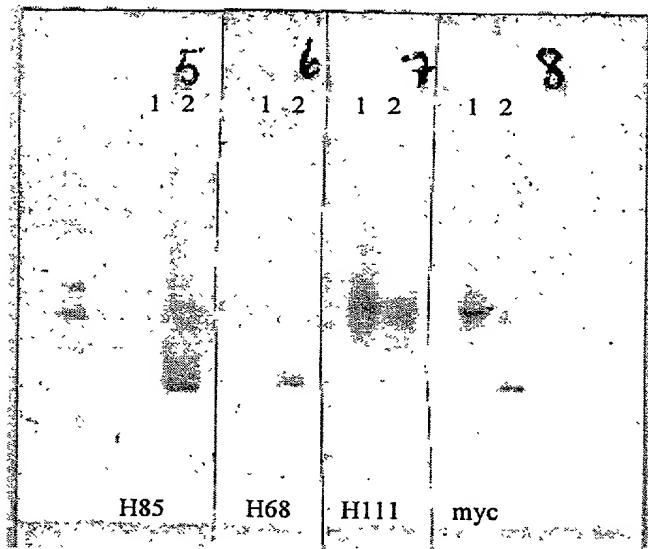
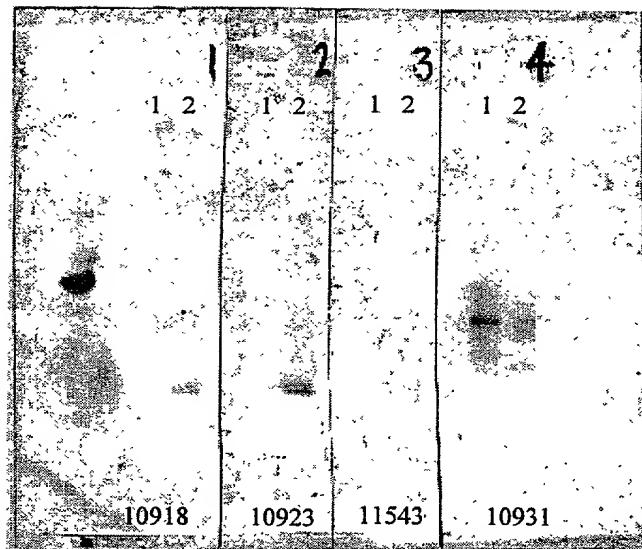
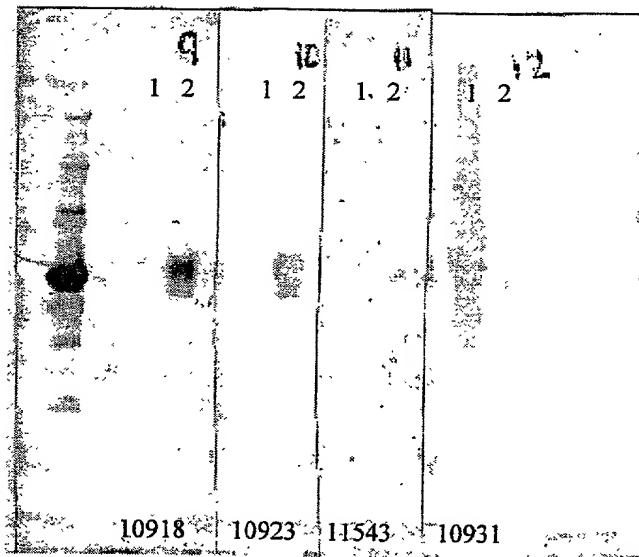
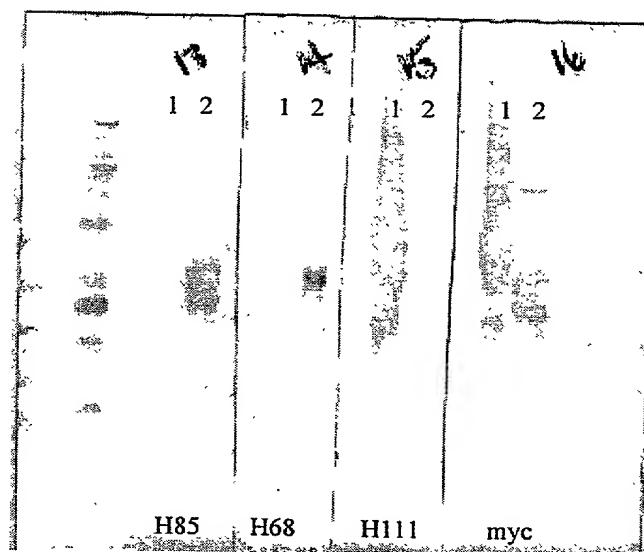


Figure 6



Polyclonal Antisera, 1:5000



Monoclonal Antibodies 1:50

Figure 6 (cont'd)

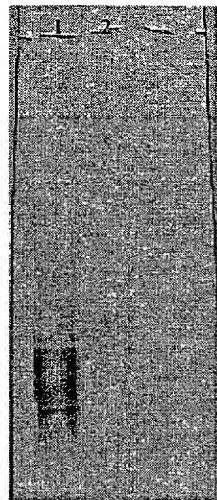


Figure 7

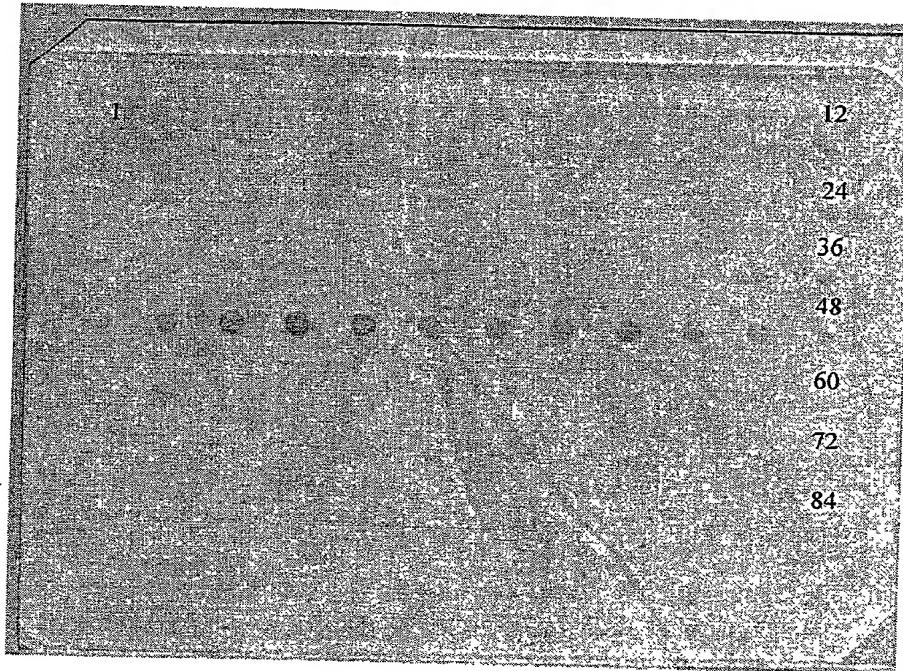
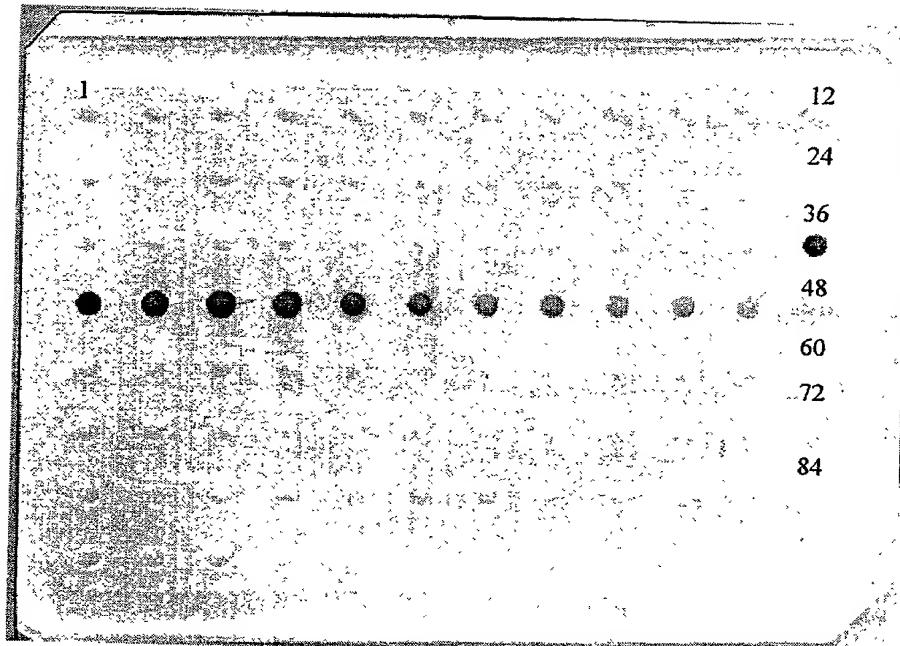


Figure 8

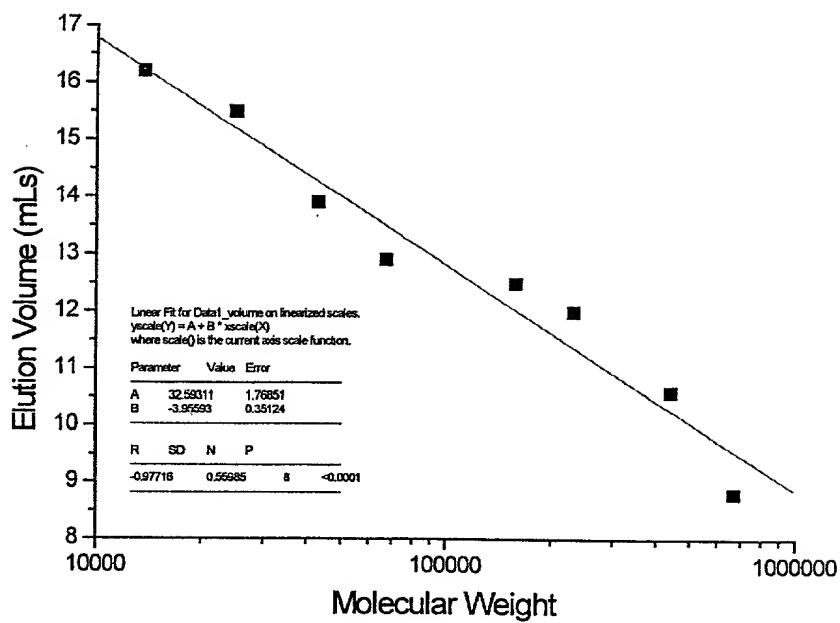


Figure 9

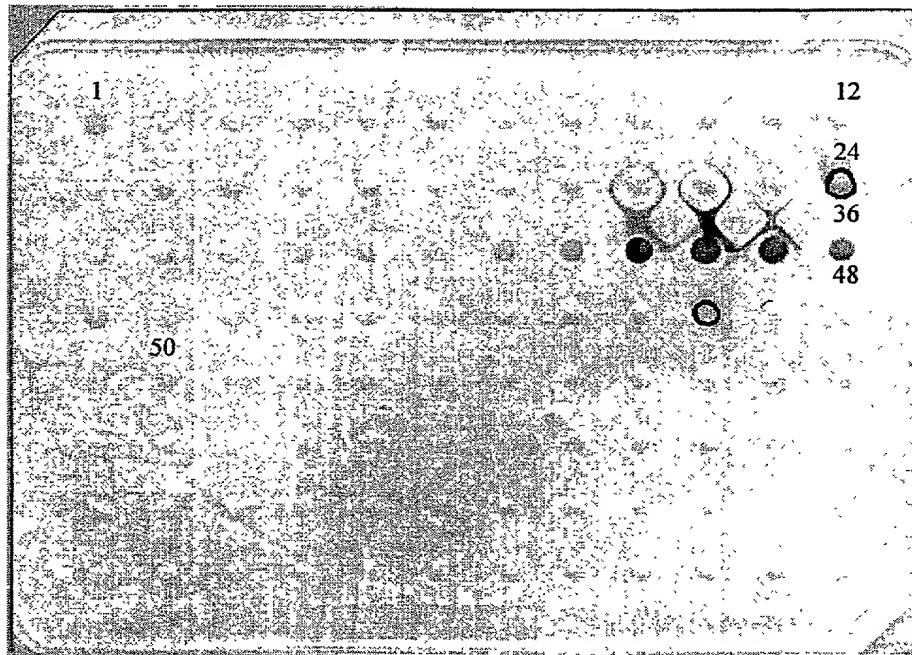


Figure 10

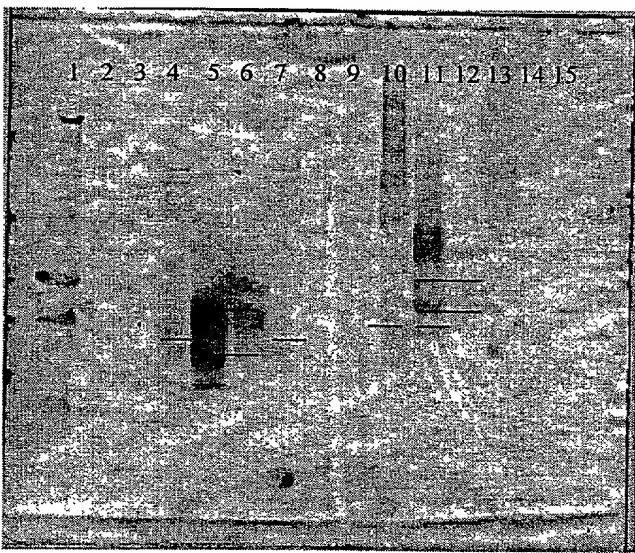
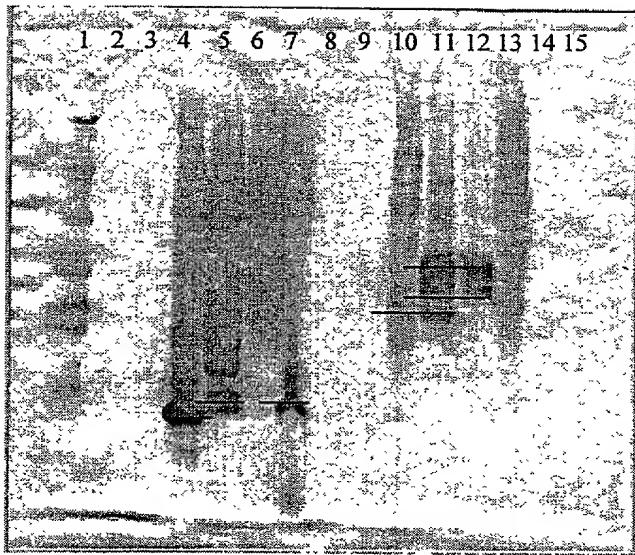
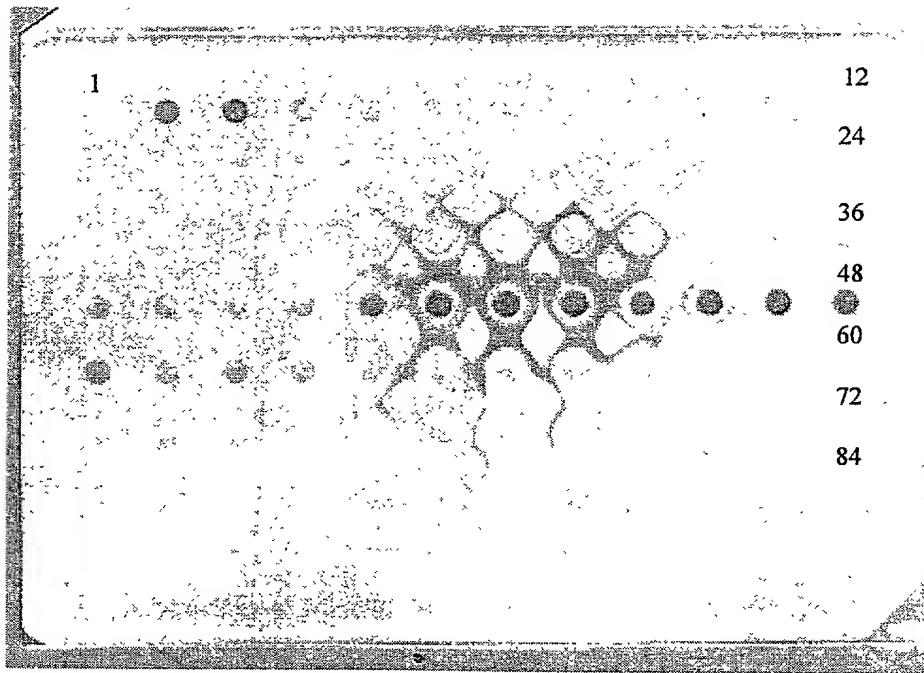
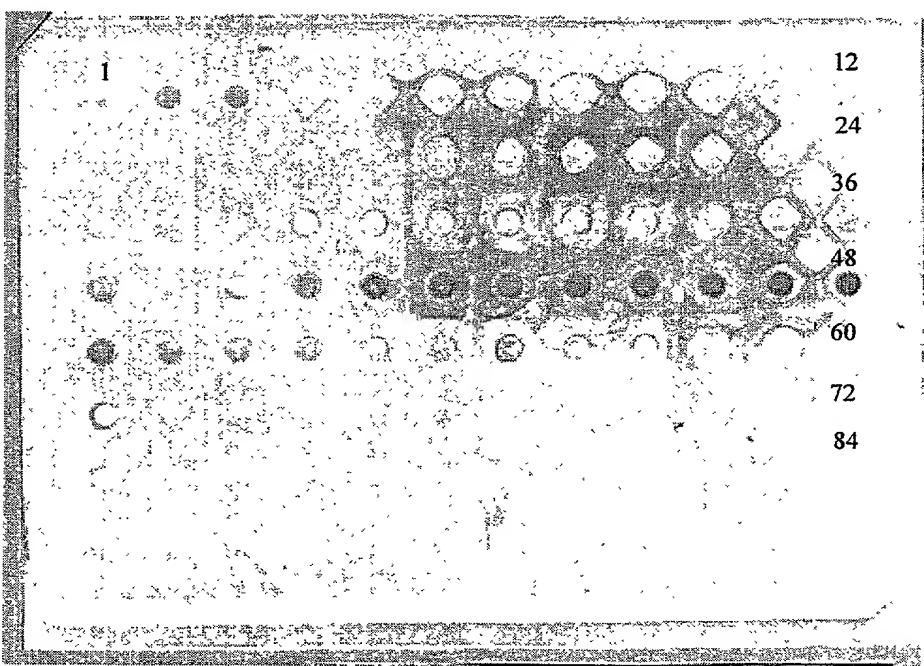


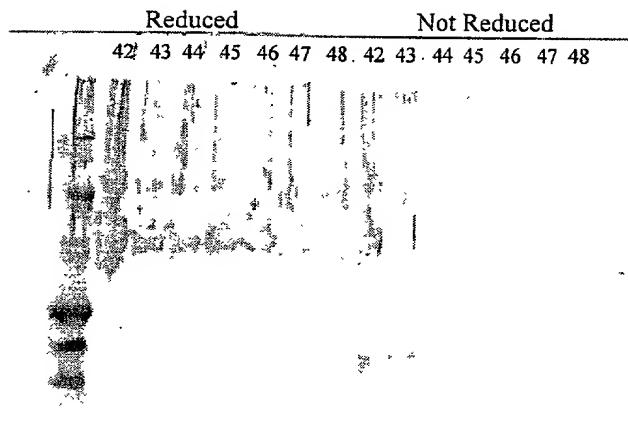
Figure 11



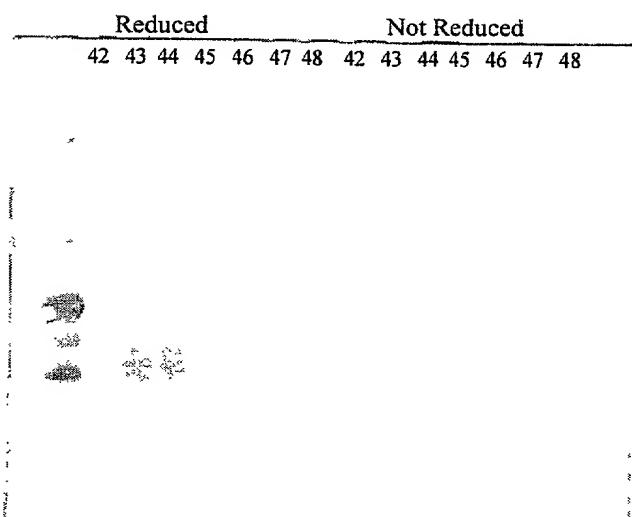
anti-BU101.3, 10923, 1:5000  
sample reduced and boiled



anti-MAM.1, 10931, 1:5000  
sample reduced and boiled



Polyclonal Antibody 10923  
anti-BU101.3



Polyclonal Antibody 10931  
anti-MAM.1

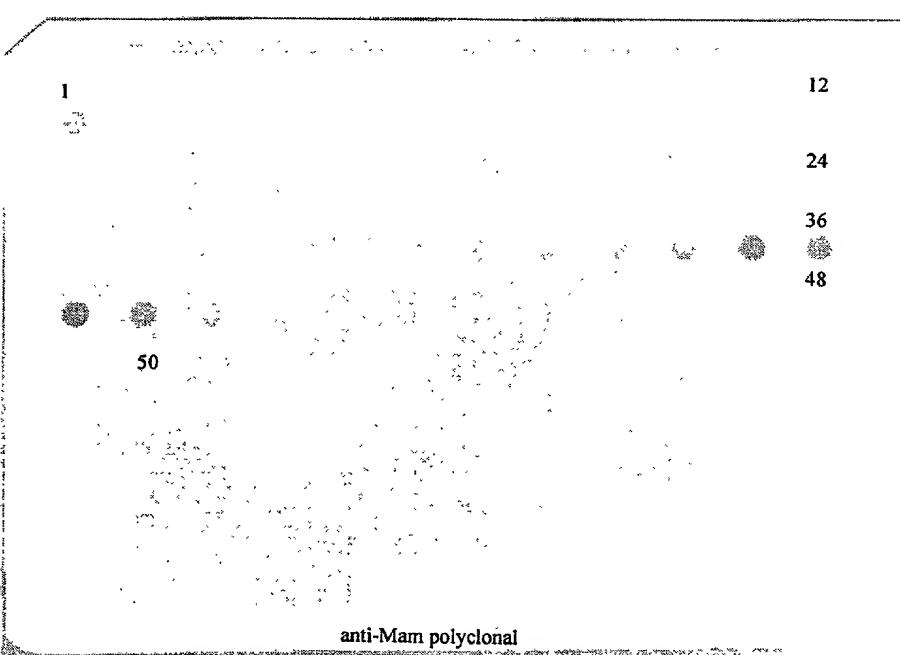
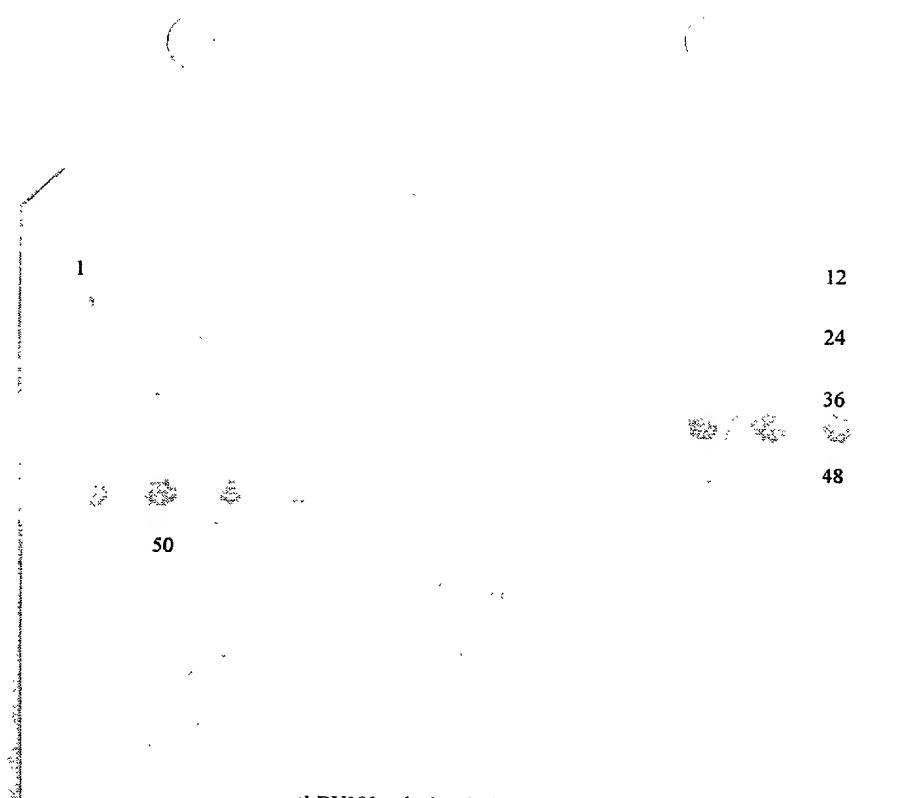


Figure 14

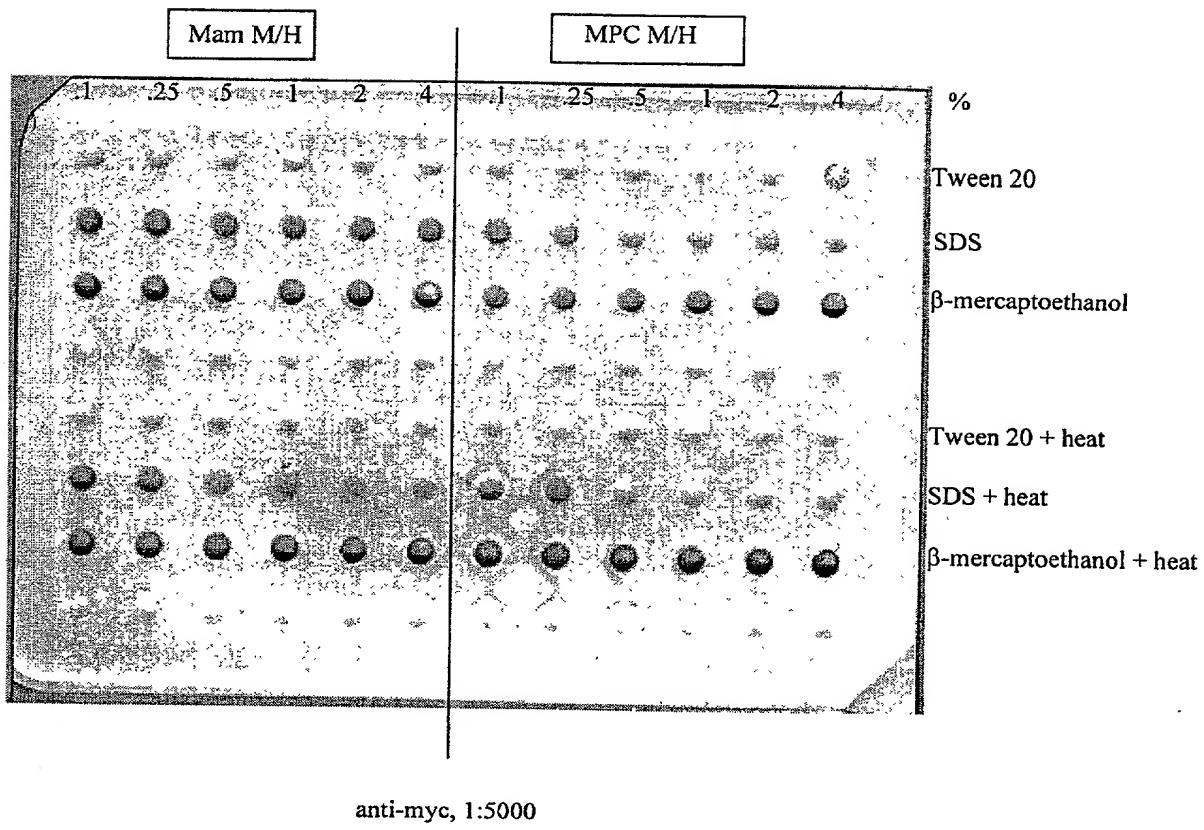


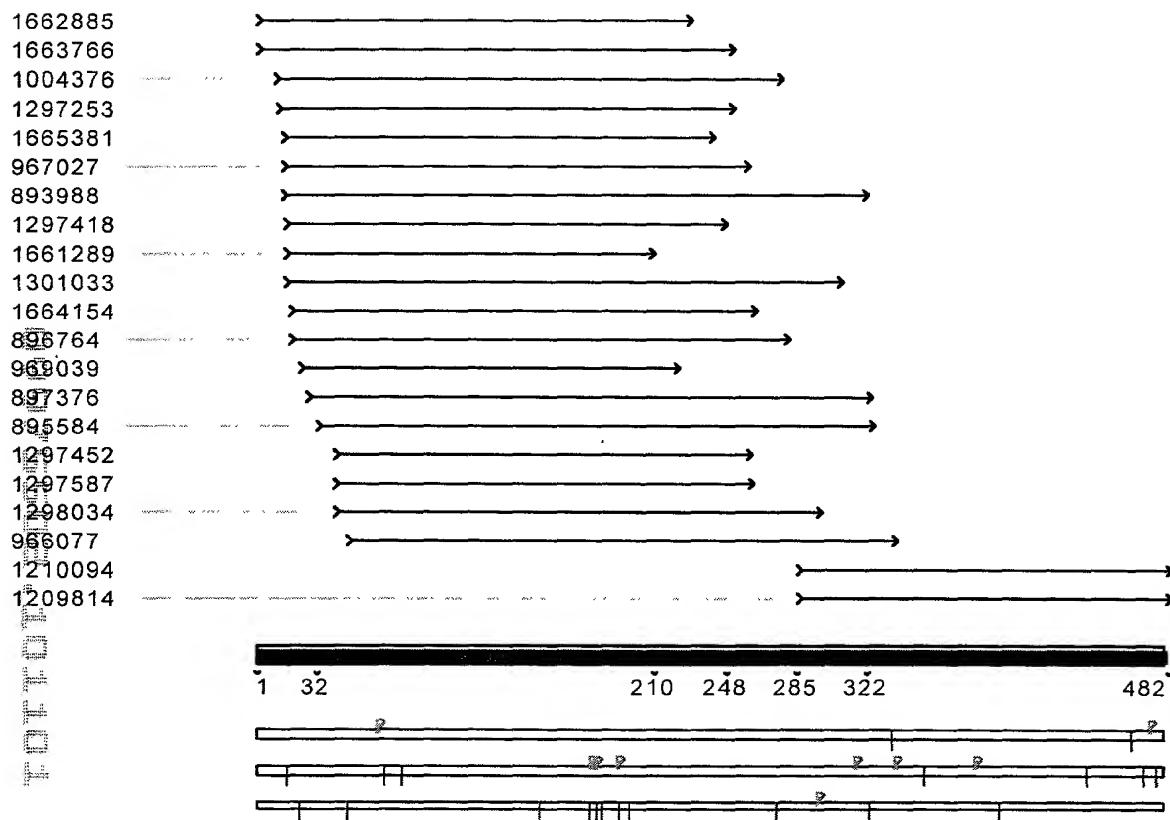
Figure 15

**FIGURE 16**

Met Lys Leu Ser Val Cys Leu Leu Leu Val Thr Leu Ala Leu Cys  
Cys  
1 5 10 15  
Tyr Gln Ala Asn Ala Glu Phe Cys Pro Ala Leu Val Ser Glu Leu  
Leu  
20 25 30  
Asp Phe Phe Phe Ile Ser Glu Pro Leu Phe Lys Leu Ser Leu Ala  
Lys  
35 40 45  
Phe Asp Ala Pro Pro Glu Ala Val Ala Lys Leu Gly Val Lys  
Arg  
50 55 60  
Cys Thr Asp Gln Met Ser Leu Gln Lys Arg Ser Leu Ile Ala Glu  
Val  
65 70 75  
80  
Leu Val Lys Ile Leu Lys Lys Cys Ser Val  
85 90

FIGURE 17

Assembly of BS106 from Individual Expressed Tags



**Figure 18A**

>BS106 consensus

CGGCTCGAGCTCTAGGTTGAAGCATTTTGTCTGTGCTCCCTGATCTCAGGTACCCACC A  
TGAAGTTCTTAGCAGCTCTGGTACTCTTGGGAGTTCCATCTTCTGGTCTCTGCCAGAACATCC  
GACAACAGCTGCTCCAGCTGACACGTATCCAGCTACTGGTCTGCTGATGATGAAGCCCCCTGA  
TGCTGAAACCCTGCTGTCACCACGCGACAC TGCTGCTCCTACCACTGCAACCACCGC  
TGCTTCTACCACTGCTCGTAAAGACATTCCAGTTACCCAAATGGGTTGGGGATCTTCCGAAT  
GGTAGAGTGTGTCCTGAGATGGAATCAGCTTGAGTCTCTGCAATTGGTCACAACATTCA  
GCTTCCTGTGATTTCATCCAACACTACCTACCTTGCTACGATATCCCCTTATCTTAATCAGTT  
ATTTTCTTCAAATAAAAAAATACTATGAGCAACATA AAAAAAAAAAAAAA

**Figure 18B**

### >BS106 translation

MKFLAVLVLLGVSIFLVSAQNPTTAAPADTYPATGPADDEAPDAETTAATTATTAAPTTATTAA  
STTARKDIPVLPKWVGDLPNGRVC

Figure 19A

### BU101

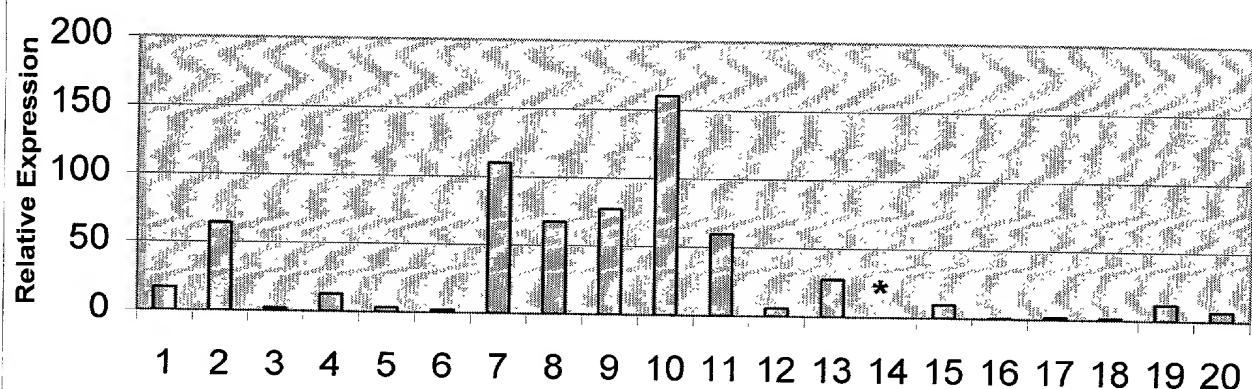


Figure 19B

### Mammaglobin

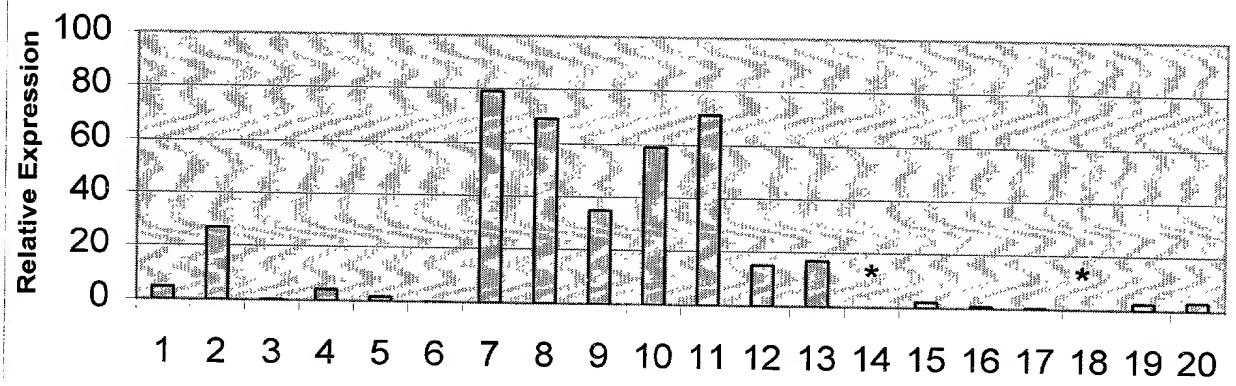
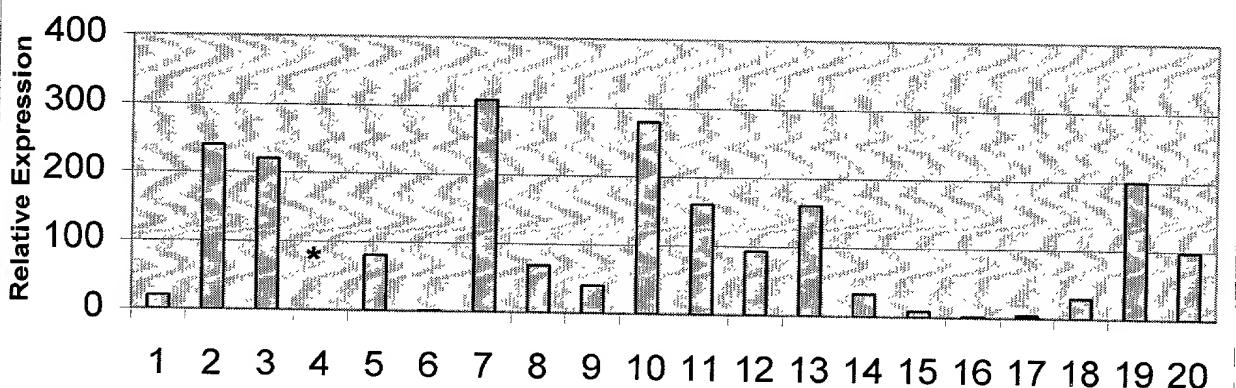
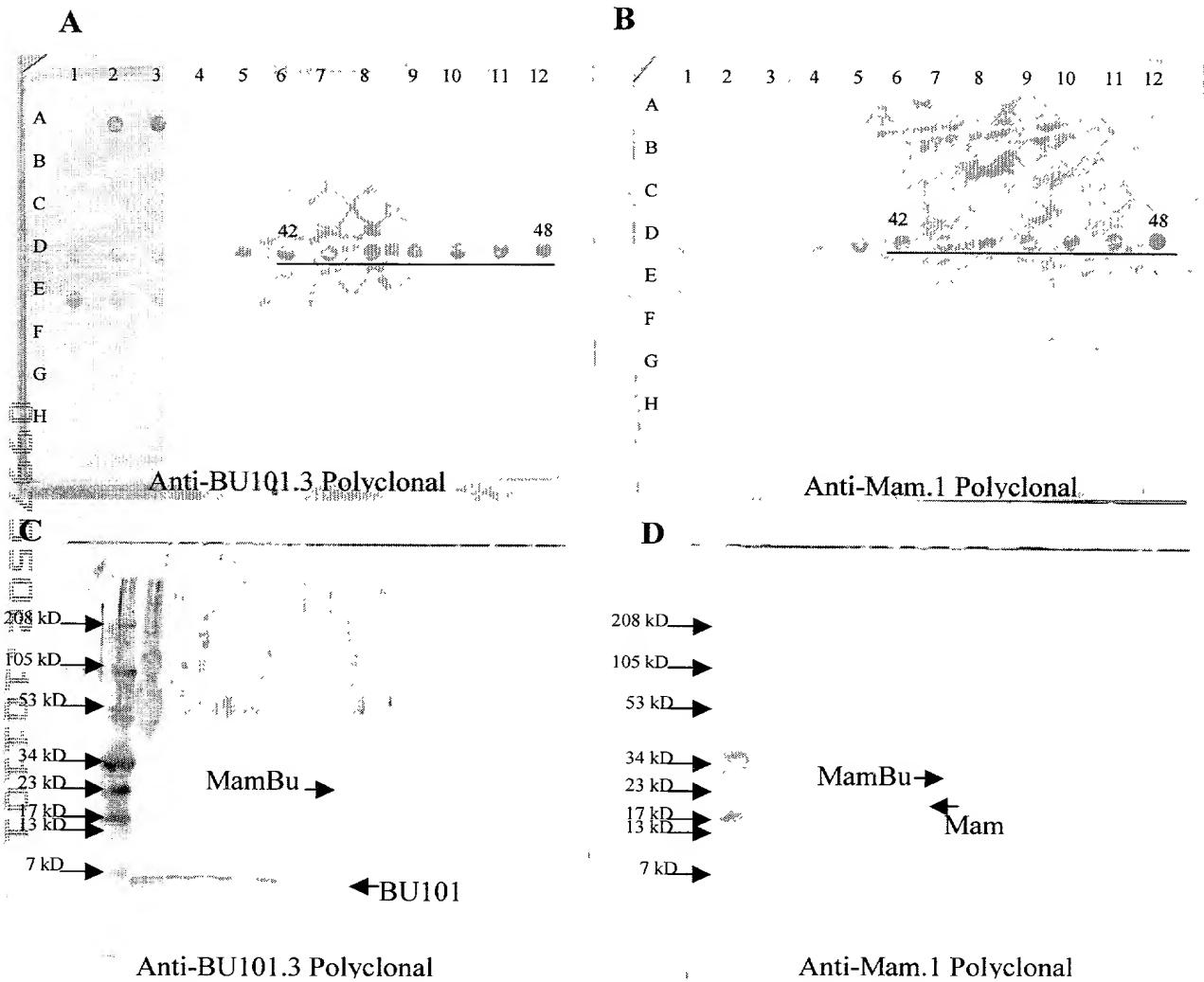


Figure 19C

### BS106



**Figures 20 A-D**



**Figure 21**

## Correlations Between Marker Expression and Clinical and Molecular Parameters

	BU101	BS106	Mammaglobin	CK19
<b>T Stage</b>	0.003 (NS)	-0.13 (NS)	-0.03 (NS)	-0.03 (NS) N=95
<b>Grade</b>	-0.14 (NS)	0.12 (NS)	0.03 (NS)	0.06 (NS) N=90
<b>N Stage</b>	0.05 (NS)	0.06 (NS)	0.04 (NS)	0.19 (NS) N=85
<b>Nodes +</b>	-0.02 (NS)	0.01 (NS)	0.05 (NS)	0.23 (NS) N=85
<b>ER</b>	-0.18 (NS)	-0.10 (NS)	<b>-0.23 (p=0.02)</b>	-0.18 (NS) N=99
<b>PR</b>	-0.18 (NS)	-0.10 (NS)	<b>-0.23 (p=0.02)</b>	-0.18 (NS) N=99
<b>HER2</b>	-0.12 (NS)	<b>0.36 (p=0.003)</b>	0.11 (NS)	0.02 (NS) N=67
<b>P53</b>	-0.19 (NS)	-0.16 (NS)	-0.02 (NS)	-0.14 (NS) N=77
<b>BU101</b>	-----	-0.05 (NS)	<b>0.37 (p=0.0001)</b>	-0.04 (NS) N=101
<b>BS106</b>	-0.05 (NS)	-----	0.004 (NS)	0.07 (NS) N=101
<b>Mamm</b>	<b>0.37 (p=0.0001)</b>	0.004 (NS)	-----	0.07 (NS) N=101

Pearson product moment correlations were calculated between each pair of variables. The only significant relationships observed are bolded and have included p values. NS= not significant